

**Amendments to the Specification**

Please replace the paragraph beginning on page 21, line 6 with the following amended paragraph:

Figure 9 is a schematic diagram showing two linear arrays of light sources, each positioned along an axis that is angularly offset by about ninety degrees relative to the central axis of flow of a flow channel. Each array of light sources has an annular zoned detector positioned on the opposite side of the flow stream. More specifically, a first flow sensor 300 has an array of light sources 22 (indicated as "+" signs) and an annular shaped detector 210 having a center ring 212 and outer rings 214a-d. A second flow sensor 302, which is located either upstream or downstream of the first flow sensor 300, includes an array of light sources 322 (indicated as "+" signs) and an annular shaped detector 310. In the illustrative embodiment, the annular shaped detector 310 of the second flow sensor 302 only has a center ring or region [[212]]312.